

UNITED STATES PATENT AND TRADEMARK OFFICE

ENITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,529	11/25/2003	Anwu Li	M596 0008	9115
720 73	7590 09/28/2004		EXAMINER	
OYEN, WIGGS, GREEN & MUTALA			EDMONDSON, LYNNE RENEE	
480 - THE STATION 601 WEST CORDOVA STREET		ART UNIT	PAPER NUMBER	
VANCOUVER, BC V6B 1G1 CANADA			1725	
			DATE MAILED: 09/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/720,529	LI, ANWU			
		Examiner	Art Unit			
		Lynne Edmondson	1725			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence address			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a rep of period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tiled by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 25 N	November 2003.				
2a) <u></u>	This action is FINAL . 2b)⊠ This	s action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) <u></u> 6)⊠	Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-7,9,10 and 13-17 is/are rejected. Claim(s) 8 and 12 is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>25 November 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2005.	are: a)⊠ accepted or b)⊡ objec drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119					
12) □ a)i	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat brity documents have been receive tu (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) 🔯 Infon	re of Dransperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>02/25/04</u> .		Patent Application (PTO-152)			

Application/Control Number: 10/720,529

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3-6, 13, 15 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Shida et al. (USPN 3648355).

Shida teaches a method of bonding a Pd-Ag foil (Table 1, col 4) to a metallic part by subjection to heat of about 720 to 850 C and pressure of about 71 to about 996 psi in a controlled atmosphere containing an inert gas (col 2 lines 3-69).

3. Claims 1-4, 13, 15 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Steuber et al. (USPN 6464129 B2).

Steuber teaches a method of bonding a Pd membrane to a metallic part by subjection to heat of about 954 to 1204 C and pressure of about 1000 to 1050 psi in a controlled atmosphere containing an inert gas (col 4 lines 5-42).

4. Claims 1, 4-7, 9-11, 13, 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Langley (USPN 3428476).

Langley teaches a method of bonding a Pd-Ag foil (col 1 lines 30-34 and col 2 lines 1-5) to a metallic part by subjection to heat of about 1000 C (col 2 line 28) and

Application/Control Number: 10/720,529

Art Unit: 1725

pressure in a controlled atmosphere containing hydrogen (col 2 lines 23-32) for about 24 hours (col 4 lines 59-67).

5. Claims 1, 2, 5, 6, 13, 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Juda et al. (USPN 5904754).

Juda teaches a method of bonding a Pd foil to a metallic part by subjection to heat and pressure of about 500 psi in a controlled atmosphere containing hydrogen for about 12 hours (col 3 lines 1-54).

6. Claims 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Demaray et al. (USPN 5595337).

Demaray teaches a method of bonding two metal objects which are both polished and subjected to heat and pressure for bonding (tungsten inert gas welding in an inert gas atmosphere (col 15 lines 1-25).

Allowable Subject Matter

7. Claims 8 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 1725

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hunt et al. (USPN 6073830, polished metal, heat, pressure, atmosphere), Shimizu et al. (USPN 6405761 B1, polished metal, heat, pressure), Roa et al. (US 2003/0190486 A1, Pd-Ru) and Barnett (USPN 6555778 B1).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson Primary Examiner Art Unit 1725

LYNNE R. EDMONDSON 40 LYNNE R. EDMONDSON 40 PRIMARY EXAMINER 4/2404

LRE